



SEQUENCE LISTING

<110> Sato, Taki-Aki

<120> GENE ENCODING NADE, P75NTR- ASSOCIATED CELL DEATH EXECUTOR  
AND USES THEREOF

<130> 0575/59131/JPW/AJM/HA

<140> 09/327,750

<141> 1999-06-07

<160> 45

<170> PatentIn version 3.0

<210> 1

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<212> DNA

<213> MOUSE

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36

<210> 2

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<213> MOUSE

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<223> Mouse Nade DNA

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27

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<222> (1)..(27)

<223> Mouse Nade DNA

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<222> (1)..(26)

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26

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<222> (1)..(26)

<223> Mouse Nade DNA

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26

<210> 12

<211> 124

<212> PRT

<213> MOUSE

<400> 12

Met Ala Asn Val His Gln Glu Asn Glu Glu Met Glu Gln Pro Leu Gln  
1            5            10            15

Asn Gly Glu Glu Asp Arg Pro Val Gly Gly Gly Glu Gly His Gln Pro  
20            25            30

Ala Gly Asn Asn Asn Asn Asn Asn His Asn His Asn His Asn His His  
35            40            45

Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile  
50            55            60

Pro Asn Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met  
65            70            75            80

Glu Met Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu  
85            90            95

Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn  
100            105            110

His His Asp His His Asp Glu Phe Cys Leu Met Pro  
115            120

<210> 13

<211> 111

<212> PRT

<213> HUMAN

<400> 13

Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln  
1            5            10            15

Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro  
20            25            30

Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg  
35            40            45

Trp Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly  
50            55            60

Asp Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys  
65                70                75                80

Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu  
          85                90                95

Leu Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro  
          100                105                110

<210> 14

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<212> PRT

<213> Mouse

<400> 14

Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu Thr  
1                5                10

<210> 15

<211> 13

<212> PRT

<213> Mouse

<400> 15

Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp Glu  
1                5                10

<210> 16

<211> 10

<212> PRT

<213> Mouse

<400> 16



Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile  
1            5                    10

<210> 17

<211> 9

<212> PRT

<213> Mouse

<400> 17

Leu Pro Val Leu Glu Asn Leu Thr Leu  
1            5

<210> 18

<211> 9

<212> PRT

<213> Mouse

<400> 18

Leu Pro Pro Leu Glu Arg Leu Thr Leu  
1            5

<210> 19

<211> 12

<212> PRT

<213> Mouse

<400> 19

Lys Val Ala Glu Lys Leu Glu Ala Leu Ser Val Arg  
1            5                    10

<210> 20

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<212> PRT

<213> Mouse

<400> 20

Glu Val Asp Gln Leu Arg Leu Glu Arg Leu Gln Ile Asp  
1 5 10

<210> 21

<211> 8

<212> PRT

<213> Mouse

<400> 21

Leu Pro Leu Gly Lys Leu Thr Leu  
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<211> 14

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<213> Mouse

<400> 22

Ala Leu Ser Ala Gln Leu Tyr Ser Ser Leu Ser Leu Asp Ser  
1 5 10

<210> 23

<211> 13

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<213> human

<400> 23

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg  
1           5           10

<210> 24

<211> 13

<212> PRT

<213> mouse

<400> 24

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg  
1           5           10

<210> 25

<211> 27

<212> PRT

<213> MOUSE

<400> 25

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu  
1           5           10           15

Arg Ile Leu Met Gly Glu Leu Ser Asn His His  
20           25

<210> 26

<211> 27

<212> PRT

<213> HUMAN

<400> 26

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu  
1            5            10            15

Arg Ile Leu Met Gly Glu Leu Ser Asn His His  
          20            25

<210> 27

<211> 8

<212> PRT

<213> MOUSE

<400> 27

Arg Leu Leu Asn Arg Leu Leu Asn  
1            5

<210> 28

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<212> DNA

<213> MOUSE

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aggactacgc cgcaagggat aggcccagaa tagcaaccag gaaacaaaat ctcatcatgg    180  
ccaatgtcca ccaggaaaac gaagagctgg agcagcccct gcagaatgga caggaagacc    240  
gccctgtggg aggaggtgag ggccaccagc ctgctgcaaa caacaacaac aacaaccaca    300  
accataacca caaccaccac cgaagaggcc aggctcgccg acttgcccct aactccgat    360  
gggccattcc caacaggcag atgaatgacg ggttggtgag agatggagat gatatggaaa    420  
tgttcatgga ggagatgaga gagatccgga gaaagcttag ggagctacag ctgagaaatt    480

gtctacgcat ccttatgggg gagctgtcta accaccacga tcacatgat gaattctgcc 540  
ttatgccttg acttcgggtca ttccccctg agatccatac tgtgactccc gctgtagccc 600  
tttctctgc atttctga catgccttta atgacccgtt tgtggtgagc cttgtgttat 660  
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<210> 29

<211> 891

<212> DNA

<213> HUMAN

<400> 29

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aatcccgga aacgaaaaat ggtgggtttg ggggaaggga ggtaaggga gaaagctgga 120  
gggaggggct ttaattggag gccccgtaga ggacgcgcgg aacttctaag gtgggaaaaa 180  
acgaaattaa aaaatccttt gatatcaggg ctctgaatcc tgctggtcag agcaccaagc 240  
attcagtctc tctccttgcc tttgtcttac ttgtgttcaa agaaaaacaa ccagaaaaaa 300  
aaaatctcat catggcaaat attcaccagg aaacgaaga gatggagcag cctatgcaga 360  
atggagagga agaccgcctt ttgggaggag gtgaaggcca ccagcctgca ggaaatcgac 420  
  
ggggacagge tcgcgactt gccctaatt ttcgatgggc cataccaat aggcagatca 480  
atgatgggat ggggtgggat ggagatgata tggaatatt catggaggag atgagagaaa 540  
tcagaagaaa acttagggag ctgcagtga ggaattgtct gcgtatcctt atgggggagc 600  
tctctaata ccatgacat catgatgaat ttgccttat gccttgactc ctgccattta 660  
tcatgagatt aatactgtga ttccgctgt ttctttttc ctgcatttt cctaatatgc 720  
cittactgat ccgtttgctg tgaaccctat gttattcca tgtgtcaagt gggctctgtg 780  
ttgccagctt ctatttgaag attgcctttg cactcagtgt aagtttctgt cagcagtagt 840  
ttcaccatt tgcatggaaa aatttaaagc taataaagca atttaaaaag c 891

<210> 30

<211> 128

<212> PRT

<213> Mouse

<400> 30

Met Glu Ser Lys Asp Gln Gly Val Lys Asn Leu Asn Met Glu Asn Asp  
1 5 10 15

His Gln Lys Lys Glu Glu Lys Glu Glu Lys Pro Gln Asp Thr Ile Arg  
20 25 30

Arg Glu Pro Ala Val Ala Leu Ile Ser Glu Ala Gly Lys Asn Cys Ala  
35 40 45

Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ala His  
50 55 60

Tyr Arg Trp Asp Leu Met Gln Arg Val Gly Glu Pro Gln Gly Arg Met  
65 70 75 80

Arg Glu Glu Asn Val Gln Arg Phe Gly Gly Asp Val Arg Gln Leu Met  
85 90 95

Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser  
100 105 110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro  
115 120 125

<210> 31

<211> 128

<212> PRT

<213> Mouse

<400> 31

Met Glu Ser Lys Glu Glu Arg Ala Leu Asn Asn Leu Ile Val Glu Asn

1            5            10            15  
Val Asn Gln Glu Asn Asp Glu Lys Asp Glu Lys Glu Gln Val Ala Asn  
          20            25            30

Lys Gly Glu Pro Leu Ala Leu Pro Leu Asn Val Ser Glu Tyr Cys Val  
          35            40            45

Pro Arg Gly Asn Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Leu Gln  
          50            55            60

Tyr Arg Trp Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met  
          65            70            75            80

Arg Glu Glu Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met  
          85            90            95

Glu Lys Leu Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser  
          100            105            110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro  
          115            120            125

<210> 32

<211> 125

<212> PRT

<213> Mouse

<400> 32

Met Glu Ser Lys Glu Lys Arg Ala Val Asn Ser Leu Ser Met Glu Asn  
1            5            10            15

Ala Asn Gln Glu Asn Glu Glu Lys Glu Gln Val Ala Asn Lys Gly Glu  
          20            25            30

Pro Leu Ala Leu Pro Leu Asp Ala Gly Glu Tyr Cys Val Pro Arg Gly  
          35            40            45

Asn Arg Arg Arg Phe Pro Val Arg Gln Pro Ile Leu Gln Tyr Arg Trp  
          50            55            60

Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met Arg Glu Glu  
          65            70            75            80

Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met Glu Lys Leu  
85 90 95

Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser Thr Asp Pro  
100 105 110

Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro  
115 120 125

<210> 33

<211> 128

<212> PRT

<213> RAT

<400> 33

Met Glu Ser Lys Asp Gln Gly Ala Lys Asn Leu Asn Met Glu Asn Asp  
1 5 10 15

His Gln Lys Lys Glu Glu Lys Glu Glu Lys Pro Gln Asp Thr Ile Lys  
20 25 30

Arg Glu Pro Val Val Ala Pro Thr Phe Glu Ala Gly Lys Asn Cys Ala  
35 40 45

Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ser His  
50 55 60

Tyr Arg Trp Asp Leu Met His Arg Val Gly Glu Pro Gln Gly Arg Met  
65 70 75 80

Arg Glu Glu Asn Val Gln Arg Phe Gly Glu Asp Met Arg Gln Leu Met  
85 90 95

Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser  
100 105 110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro  
115 120 125

<210> 34

<211> 118

<212> PRT



<213> Mouse

<400> 34

Met Ala Ser Lys Val Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys  
1            5            10            15

Asp Lys Lys Asn Lys Lys Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu  
20            25            30

Glu Ser His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn  
35            40            45

Val Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile  
50            55            60

Pro Asn Arg His Val Asp His Ser Glu Gly Gly Glu Glu Val Gly Arg  
65            70            75            80

Phe Val Gly Gln Val Met Glu Ala Lys Arg Lys Ser Lys Glu Gln Gln  
85            90            95

Met Arg Pro Tyr Thr Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr  
100            105            110

Asp Phe Cys Leu Ile Pro  
115

<210> 35

<211> 117

<212> PRT

<213> Mouse

<400> 35

Met Ala Ser Lys Phe Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys Asp  
1            5            10            15

Lys Lys Asp Lys Arg Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu Glu  
20            25            30

Pro His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn Val

35                      40                      45  
 Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile Pro  
 50                      55                      60  
 Asn Arg His Val Asp Arg Asn Glu Gly Gly Glu Asp Val Gly Arg Phe  
 65                      70                      75                      80  
 Val Val Gln Gly Thr Glu Val Lys Arg Lys Thr Thr Glu Gln Gln Val  
 85                      90                      95  
 Arg Pro Tyr Arg Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr Asp  
 100                      105                      110  
 Phe Cys Leu Ile Pro  
 115

<210> 36

<211> 110

<212> PRT

<213> Mouse

<400> 36

Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln  
 1                      5                      10                      15  
 Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro  
 20                      25                      30  
 Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp  
 35                      40                      45  
 Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly Asp  
 50                      55                      60  
 Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu  
 65                      70                      75                      80  
 Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu  
 85                      90                      95  
 Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro  
 100                      105                      110

<210> 37

<211> 120

<212> PRT

<213> Mouse

<400> 37

Met Glu Gln Pro Leu Gln Asn Gly Gln Glu Asp Arg Pro Val Gly Gly  
1 5 10 15

Gly Glu Gly His Gln Pro Ala Ala Ala Asn Asn Asn His Asn His Asn His  
20 25 30

Asn His Asn His Ser His Asn His Asn His His Arg Arg Gly Gln  
35 40 45

Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro Asn Arg Gln  
50 55 60

Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met Phe Met  
65 70 75 80

Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg  
85 90 95

Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His Asp His  
100 105 110

His Asp Glu Phe Cys Leu Met Pro  
115 120

<210> 38

<211> 122

<212> PRT

<213> Mouse

<400> 38

Met Ala Asn Val His Gln Glu Asn Glu Glu Met Glu Gln Pro Leu Gln  
1 5 10 15

Asn Gly Gln Glu Asp Arg Pro Val Gly Gly Gly Glu Gly His Gln Pro  
20 25 30

Ala Ala Asn Asn Asn Asn Asn Asn His Asn His Asn His Asn His His Arg Arg  
35 40 45

Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro Asn  
50 55 60

Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met  
65 70 75 80

Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln  
85 90 95

Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His  
100 105 110

Asp His His Asp Glu Phe Cys Leu Met Pro  
115 120

<210> 39

<211> 111

<212> PRT

<213> Mouse

<400> 39

Met Glu Asn Val Pro Lys Glu Asn Lys Val Val Glu Lys Ala Pro Val  
1 5 10 15

Gln Asn Glu Ala Pro Ala Leu Gly Gly Gly Glu Tyr Gln Glu Pro Gly  
20 25 30

Gly Asn Val Lys Gly Val Trp Ala Pro Pro Ala Pro Gly Phe Gly Glu  
35 40 45

Asp Val Pro Asn Arg Leu Val Asp Asn Ile Asp Met Ile Asp Gly Asp  
50 55 60

Gly Asp Asp Met Glu Arg Phe Met Glu Glu Met Arg Glu Leu Arg Arg  
65 70 75 80

Lys Ile Arg Glu Leu Gln Leu Arg Tyr Ser Leu Arg Ile Leu Ile Gly  
85 90 95

Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro  
100 105 110

<210> 40

<211> 13

<212> PRT

<213> MOUSE

<400> 40

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg  
1 5 10

<210> 41

<211> 13

<212> PRT

<213> HUMAN

<400> 41

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg  
1 5 10

<210> 42

<211> 10

<212> PRT

<213> Mouse

<400> 42

Leu Pro Pro Leu Glu Arg Leu Thr Leu Asp  
1 5 10

<210> 43

<211> 12

<212> PRT

<213> MOUSE

<400> 43

Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp  
1            5            10

<210> 44

<211> 12

<212> PRT

<213> Mouse

<400> 44

Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu  
1            5            10

<210> 45

<211> 10

<212> PRT

<213> Mouse

<400> 45

Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile  
1            5            10